

ORIGINAL

STATE OF ILLINOIS

ILLINOIS COMMERCE COMMISSION

702-0006

STIPULATED AGREEMENT NO. 965

This agreement made and entered into, by and between the State of Illinois acting by and through the Illinois Commerce Commission, hereinafter referred to as "COMMISSION", the Union Pacific Railroad Company, hereinafter referred to as "COMPANY", the Township of Jonathon Creek in Moultrie County, hereinafter referred to as "TOWNSHIP", and the State of Illinois, Department of Transportation, hereinafter referred to as the "DEPARTMENT".

WITNESSETH:

WHEREAS, it has come to the attention of the COMMISSION through informal correspondence that inquiry should be made into the matter of improving public safety at the crossings of the COMPANY's track with public highways known as Township Road ("TR") 81A and TR 140 located near the City of Sullivan in Jonathon Creek Township, Illinois, designated as crossings AAR/DOT167 053M, milepost 171.20CC, and AAR/DOT 167 256S, milepost 171.90CC, respectively; and

WHEREAS, proper investigation has been made of the circumstances surrounding the aforesaid crossing by a study team comprised of representatives of the Commission's staff, the COMPANY, and Moultrie County (on behalf of the Township) and at a later date by a member of the DEPARTMENT; and

WHEREAS, the physical aspects, including geometrics of the intersection, train movements, vehicular traffic volumes, and sight distances and all other pertinent data relating to the crossings have been obtained and shown on Exhibits A-1 and A-2, attached to the Agreement; and

WHEREAS, the parties are mutually agreeable to accomplish the proposed improvements upon a determination of COMMISSION by Order.

NOW, THEREFORE in consideration of the premises and of the mutual covenants and agreements as hereinafter contained the parties pray that the COMMISSION enter an Order according to the provisions of Section 18c-7401 of the Illinois Commercial Transportation Law requiring that certain improvements as hereinafter stated be made and that the cost for the proposed improvements be divided among the parties according to law and that in the interest of the statewide traveling public the Grade Crossing Protection Fund of the Motor Fuel Tax Law be required to bear a substantial portion of the cost; To Wit the parties agree as follows:

DOCKETED

Section 1 All improvements encompassed by this Agreement shall be made in accordance with all applicable State laws, rules, standards, regulations and Orders and procedures in general.

Section 2 The parties are of the opinion that the proper improvements in the interest of public safety at the aforesaid crossing should be:

- (a) the installation of automatic flashing light signals and gates controlled by constant warning time circuitry at the TR 81A crossing.
- (b) the installation of automatic flashing light signals and gates controlled by constant warning time circuitry at the TR 140 crossing.

Section 3 The COMPANY has prepared preliminary estimates of cost to accomplish the proposed improvements that it may be required to perform. Said estimates are attached as Exhibits B-1 and B-2. The COMPANY shall upon Order, according to the requirements contained therein, prepare detailed drawings, detailed circuit plans, estimates of cost and any required specifications for the proposed improvements for the approval of the COMMISSION and DEPARTMENT.

Section 4 The COMPANY shall upon Order, according to the requirements contained therein, proceed toward the completion of the proposed improvements, accomplishing the work with its own forces or appropriate contracted services and agrees that an appropriate time for the submission of plans should be one hundred twenty (120) days and for the completion of the proposed improvements should be twelve (12) months, from the date of COMMISSION Order, subsequent to this Agreement.

The COMPANY shall at six (6) month intervals from the date of the Order subsequent to this Agreement until the project has been completed, submit written reports to the Director of Processing and Information, Transportation Division of the Commission, stating the status of expenditures of the total project and percentage of completion of the project. If the project is behind schedule, the report must include a brief explanation of the reason(s) for the delay.

Section 5 The parties hereto agree that an equitable division of cost for the proposed improvements should be:

- (a) the cost for the improvement listed in Section 2(a), estimated to be

\$191,401, shall be allocated 30% to the Grade Crossing Protection Fund (not to exceed \$57,421), and 70% to the DEPARTMENT, (not to exceed \$133,980). Any additional costs, as well as all cost of future maintenance and operation of the warning devices, shall be borne by the COMPANY. (See Exhibit B-1).

- (b) the cost for the improvement listed in Section 2(b), estimated to be \$128,655, shall be allocated 30% to the Grade Crossing Protection Fund (not to exceed \$38,597), and 70% to the DEPARTMENT, (not to exceed \$90,058). Any additional costs, as well as all cost of future maintenance and operation of the warning devices, shall be borne by the COMPANY. (See Exhibit B-2).

Section 6 Special Provisions: Since federal funding is being utilized for the warning device improvements at the subject crossings, all such work shall be covered by appropriate provisions of Title 23, Chapter I, Subchapter G, Part 646 of the Federal-Aid Policy Guide adopted Dec. 9, 1991.

The COMPANY shall at six (6) month intervals from the date of this Order until the project has been completed, submit written reports to the Director of Processing and Information, Transportation Division of the Commission, stating the progress it has made toward completion of the work herein required. Each progress report shall include the Commission Order number, the Order date, the project Completion date as noted in the Order subsequent to this Agreement, crossing information (the name, title, mailing address, telephone number, and facsimile number of the COMPANY employee responsible for management of the project.

All bills for expenditures related to items authorized to be reimbursed from the Grade Crossing Protection Fund shall be submitted to the Mr. Hank Cronister, Bureau of Local Roads and Street, Main Office of the Illinois Department of Transportation, 2300 South Dirksen Parkway, Springfield, IL 62764. A copy of all bills received by the DEPARTMENT shall be submitted to Director of Processing and Information, Transportation Division of the Commission. The final bill for expenditures from each party shall be clearly marked "Final Bill". All bills shall be submitted no later than twenty-four (24) months from the date of COMMISSION Order subsequent to this Agreement. Authorization for reimbursement from the Grade Crossing Protection Fund shall expire twelve (12) months after the completion date specified in this Order. The Department shall, at the end of the 24th month from the Commission Order date, de-obligate all residual funds accountable for installation costs for this project.

Section 7 This Agreement shall be binding upon the parties hereto, their successors or assigns. Upon execution of this Agreement by all parties, the COMMISSION shall enter an Order, within sixty (60) days accepting or rejecting such stipulation according to the provisions contained herein.

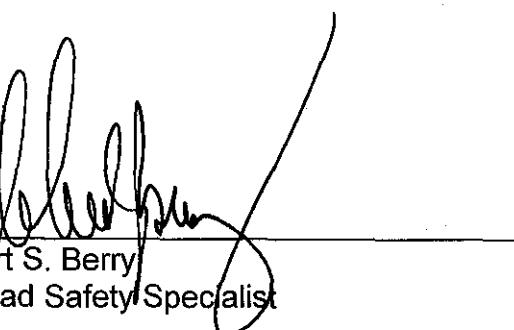
In Witness Whereof, the parties have caused this Agreement to be executed by their duly authorized officers, as of the dates indicated herein.

Executed by the COMMISSION this 22nd day of January, 2002.



Michael E. Stead
Rail Safety Program Administrator

Attest:



Robert S. Berry
Railroad Safety Specialist

Illinois Commerce Commission Stipulated Agreement No. 965 concerning improvements at the crossings of the track of the Union Pacific Railroad Company with TR 81A and TR 140 in Jonathon Creek Township near the City of Sullivan, Moultrie County, Illinois, designated as crossings AAR/DOT 167 053M, milepost 171.20 CC and AAR/DOT 167 256S, milepost 171.90 CC, respectively.

Executed by the Township of Jonathon Creek this 31st day of January, 2002.

THE TOWNSHIP OF JONATHON CREEK

By: Rodney Divine

Attest:

Kathy D. Siger

Illinois Commerce Commission Stipulated Agreement No. 965 concerning improvements at the crossings of the track of the Union Pacific Railroad Company with TR 81A and TR 140 in Jonathon Creek Township near the City of Sullivan, Moultrie County, Illinois, designated as crossings AAR/DOT 167 053M, milepost 171.20 CC and AAR/DOT 167 256S, milepost 171.90 CC, respectively.

Executed by the Department this 13th day of February, 2001/2002.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

By:

James S. Easton
Director of Highways

Illinois Commerce Commission Stipulated Agreement No. 965 concerning improvements at the crossings of the track of the Union Pacific Railroad Company with TR 81A and TR 140 in Jonathon Creek Township near the City of Sullivan, Moultrie County, Illinois, designated as crossings AAR/DOT 167 053M, milepost 171.20 CC and AAR/DOT 167 256S, milepost 171.90 CC, respectively.

Executed by the Company this 19 day of Feb, 2002.

UNION PACIFIC RAILROAD COMPANY

By: Thomas J. Ogee
CHIEF ENGINEER

Attest:

Kathy Klockner

STATE OF ILLINOIS
ILLINOIS COMMERCE COMMISSION
STIPULATED AGREEMENT SURVEY FORM

RR/Line Union Pacific Milepost 171.20 CC Inventory# 167 053M

City Near Sullivan Street TR 81A County Moultrie

Jurisdiction Jonathon Creek Twp. Urban Rural Commercial X Residential X

Street Surface Oil & Chip Width 15' Condition Good

Angle 45° Tracks Tangent Degree of Curve Superelevation

Depth of Cut _____ Height of Fill _____

Crossing Surface

Track Centers	Elevation	Track	Type	Width	Condition
		<u>Main</u>	<u>Timber</u>	<u>32'</u>	<u>Fair</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Intersecting Roads 100' _____ No _____ 200' _____ No _____

Traffic Control Devices Present _____ No _____

ADT 175 Speed 55 (unposted) Statewide Yes

Schoolbuses Yes Hazardous Materials Farm chemicals Other _____

Rail Traffic: Ft. 22 @ 60 mph Pass. @ mph Switch _____

Simultaneous Movements Yes **Daylight and Dark** Yes

Present Protection Crossbuck signs

Advance Warning Signs Yes Pavement Marking No

Visibility Study

Quad	Clearing Visibility	Obstruction	Stopping Visibility	Obstruction
NE	N/A			N/A
NW				
SE				
SW				

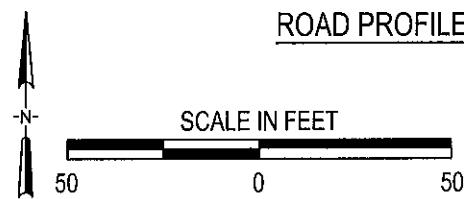
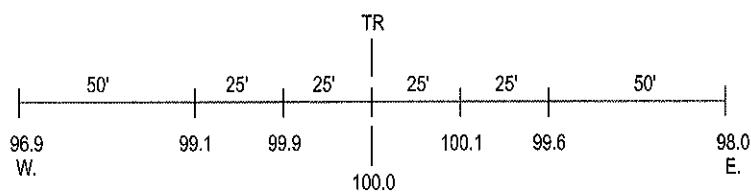
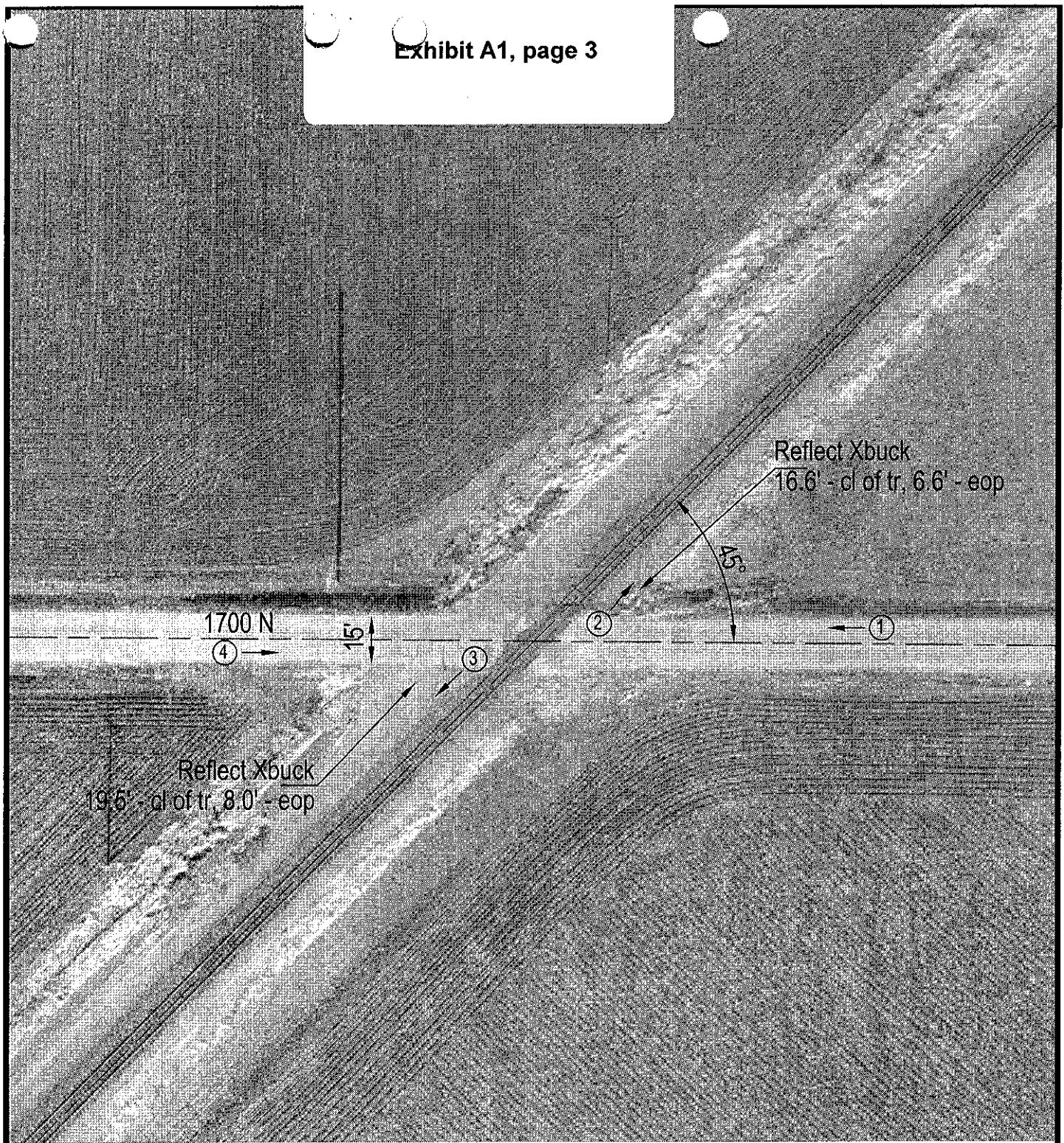
Approach Grades

East 25 ' -0.40 % 50 ' -3.20 % _____ %
West 25 ' +0.40 % 50 ' -2.00 % _____ %

Meets the requirements of 92 Ill. Adm. Code 1535.204.

Comments: This crossing meets the minimum criteria for the installation of automatic flashing light signals and gates in that the product of the average daily train and vehicular traffic exceeds 3,000.

The cost for the crossing warning devices is being divided between the Grade Crossing Protection Fund and TEA-21 funds (federal funds) administered through the Department. The local road agency is not being assessed a share of the cost of the warning devices.



(3) Photo Location

Crossing #: 167053M
Location: Moultrie Co., City of Sullivan (N)
Lat/Long: 39°39'05" / 88°33'29"
Railroad: UP
Street: 1700 N
Railroad Milepost: 171.20
Crossing Protection: Signs

**STATE OF ILLINOIS
ILLINOIS COMMERCE COMMISSION
STIPULATED AGREEMENT SURVEY FORM**

RR/Line Union Pacific Milepost 171.90 CC Inventory# 167 256S

City Near Sullivan Street TR 140 County Moultrie

Jurisdiction Jonathon Creek Twp. Urban Rural X Commercial Residential X

Street Surface Oil & Chip Width 18' Condition Good

Angle 45° Tracks Tangent Degree of Curve Superelevation

Depth of Cut _____ Height of Fill _____

Crossing Surface

Track Centers	Elevation	Track	Type	Width	Condition
		Main	Timber	32'	Fair
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Intersecting Roads 100' _____ No _____ 200' _____ No _____

Traffic Control Devices Present _____ No _____

ADT_200 Speed_55 (unposted) Statewide_ Yes

Schoolbuses Yes Hazardous Materials Farm chemicals Other _____

Rail Traffic: Ft. 22 @ 60 mph Pass. @ mph Switch

Simultaneous Movements Yes **Daylight and Dark** Yes

Present Protection Crossbuck signs

Advance Warning Signs Yes _____ **Pavement Marking** No _____

Visibility Study

Quad	Clearing Visibility	Obstruction	Stopping Visibility	Obstruction
NE	N/A			N/A
NW				
SE				
SW				

Approach Grades

East 25' -2.00 % 50' -5.20 % _____' _____%
West 25' -2.40 % 50' -4.40 % _____' _____%

Meets the requirements of 92 Ill. Adm. Code 1535.204.

Comments: This crossing meets the minimum criteria for the installation of automatic flashing light signals and gates in that the product of the average daily train and vehicular traffic exceeds 3,000.

The cost for the crossing warning devices is being divided between the Grade Crossing Protection Fund and TEA-21 funds (federal funds) administered through the Department. The local road agency is not being assessed a share of the cost of the warning device installation.

The highway approach grades for the north highway approach at 25' and 50' and the south highway approach at 25' from the crossing do not conform to the requirements of 92 Ill. Adm. Code 1535.204. Any attempt to bring the highway approaches into compliance would not be cost effective or physically desirable from an engineering perspective. A variance from the grade requirements of 92 Ill. Adm. Code 1535.204 should be granted to the TOWNSHIP and the TOWNSHIP should be allowed to maintain the aforementioned highway approaches at their current grades.

DATE: 2001-03-08

ESTIMATE OF MATERIAL AND FORCE ACCOUNT WORK
BY THE
UNION PACIFIC RAILROAD

DESCRIPTION OF WORK:

INSTALL GRADE CROSSING WARNING DEVICES WITH GATES AND FLASHING LIGHTS AT TR-81A, IN SULLIVAN, IL. AT MP 171.20 ON PANA SUB.

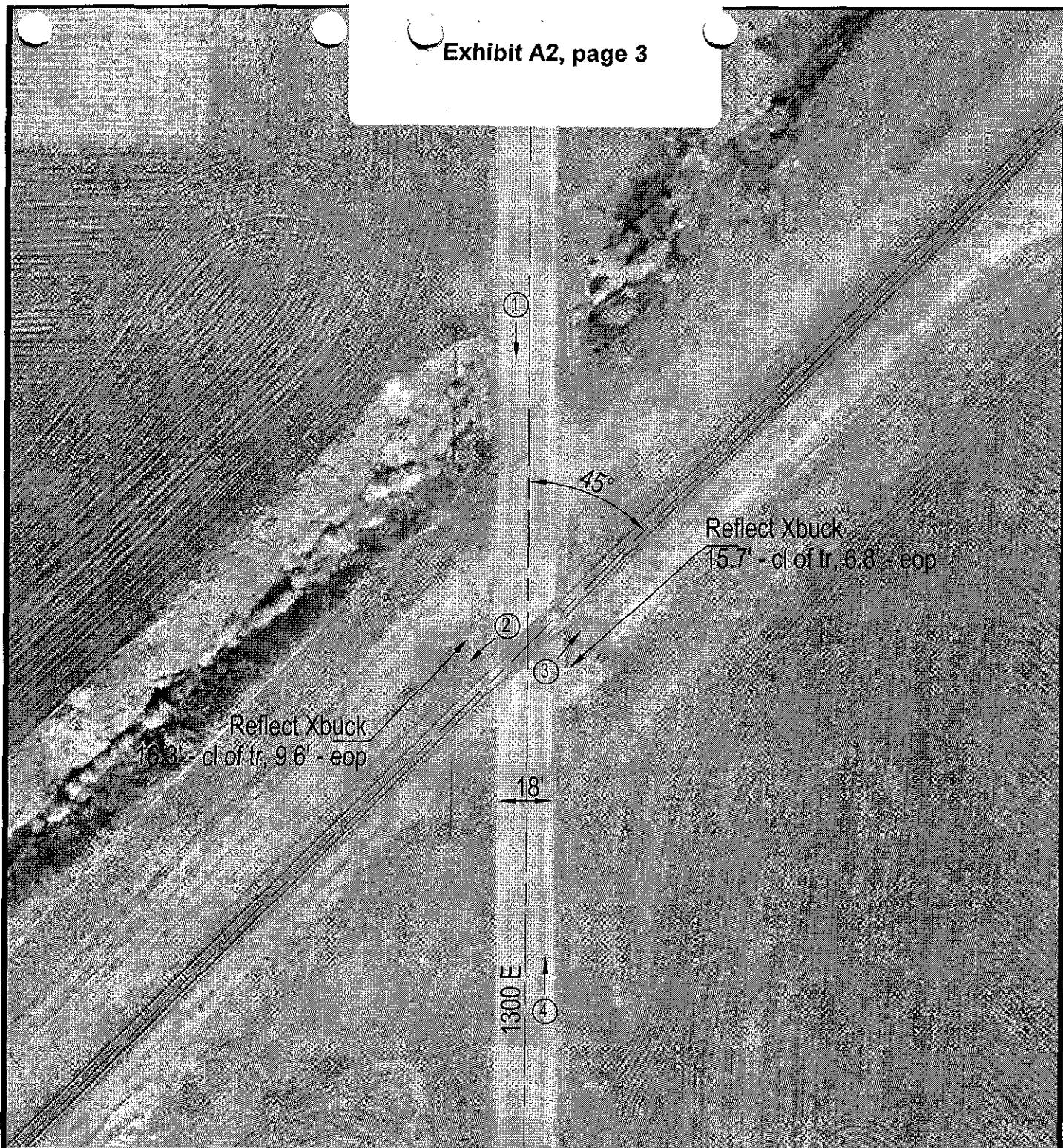
SIGNAL PROJECT MANAGER: DAVE MCKERNAN, PH# 8-992-1169

RAILROAD TO PERFORM ALL WORK/COST DISTRIBUTED AS FOLLOWS:

SIGNAL - STATE OF ILLINOIS - 100% RECOLLECTABLE

PID: 37638 AWD: 00259 MP, SUBDIV: 171.20, PANA
SERVICE UNIT: 04 CITY: SULLIVAN STATE: IL

DESCRIPTION	QTY	UNIT	LABOR	MATERIAL	RECOLL	UPRR	TOTAL
-----	---	----	-----	-----	-----	-----	-----
ENGINEERING WORK							
ENGINEERING	2494		2494			2494	
LABOR ADDITIVE	4594		4594			4594	
RECOLL-INSPE	2237		2237			2237	
SIG-HWY XNG	1478		1478			1478	
TOTAL ENGINEERING	10803		10803			10803	
SIGNAL WORK							
BILL PREP	900		900			900	
CONTRACT	8454		8454			8454	
EARTH/ROCK	2000		2000			2000	
EQUIPMENT RENTAL	5000		5000			5000	
FOREIGN LINE FREIGHT	1690		1690			1690	
LABOR ADDITIVE	21997		21997			21997	
MATL STORE EXPENSE	4227		4227			4227	
PERSONAL EXPENSES	11210		11210			11210	
SALES TAX	5284		5284			5284	
SIGNAL	29725		84547	114272		114272	
TRANSPORTATION CHARGES			1788	1788		1788	
USAGE EQUIPMENT	3776		3776			3776	
TOTAL SIGNAL	52622		127976	180598		180598	
-----	-----	-----	-----	-----	-----	-----	-----
LABOR/MATERIAL EXPENSE	63425		127976	-----	-----	-----	-----
RECOLLECTIBLE/UPRR EXPENSE				191401	0	-----	-----
ESTIMATED PROJECT COST						191401	
EXISTING REUSEABLE MATERIAL CREDIT				0			
SALVAGE NONUSEABLE MATERIAL CREDIT				0			
-----	-----	-----	-----	-----	-----	-----	-----
RECOLLECTIBLE LESS CREDITS							
THE ABOVE FIGURES ARE ESTIMATES ONLY AND SUBJECT TO FLUCTUATION. IN THE EVENT OF AN INCREASE OR DECREASE IN THE COST OR QUANTITY OF MATERIAL OR LABOR REQUIRED, UPRR WILL BILL FOR ACTUAL CONSTRUCTION COSTS AT THE CURRENT EFFECTIVE RATE.							



							Crossing #: 167256S
							Location: Moultrie Co., City of Sullivan (N)
							Lat/Long: 39°38'48" / 88°34'01"
							Railroad: UP
							Street: 1300 E
							Railroad Milepost: 171.90
							Crossing Protection: Signs
 ROAD PROFILE							
 SCALE IN FEET							
(3) Photo Location							

WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

EST START: 01-01-01
 EST COMP: 12-31-01

RAILROAD: UPRR CO.
 LOCATION: SULLIVAN IL TR-81A PANA SUB
 DEPARTMENT: ENGINEERING SERVICES

PROJ NO: 37638
 A.W.O. NO: 00259
 W.O. NO:
 B.I. NO: 00EN10
 STATE: IL
 VAL SEC: 1117

----- STOCK MATERIAL PLAN -----

ITEM NUMBER	ITEM DESCRIPTION	UNIT COST	DIRECT		
			QTY	UM	MATL \$
02040420	BATTERY, GNB, 75A9 OR 50A13	180.00	12	EA	2160
02040660	BATTERY, GNB, 75A23 OR 50A27	318.17	14	EA	4454
09011030	CABLE TIE, NYLON 5/8" MAX. DIA.	0.04	100	EA	4
09011240	CABLE TIE, NYLON 1 1/8" MAX. DIA	0.06	300	EA	18
09011980	CABLE TIE, NYLON 3 1/2" MAX. DIA	0.22	20	EA	4
09014950	CIRCUIT BREAKER, 120/240V 20A AC	23.29	1	EA	23
09042860	POWER OFF LIGHT ASSY.	29.21	1	EA	29
09054300	RELAY, TAB 859 KRP11DN12V. SW.HTR.	10.67	1	EA	11
09054360	RELAY, GEN.PURPOSE 120V. TAB 856	9.51	2	EA	19
09057650	SOCKET, P-B 27E122 TAB 836A & 856	2.73	3	EA	8
09065700	TAPE, ELECTRICAL PLASTIC	2.40	4	RL	10
09066900	TERMINAL, SPADE, 10-12 WIRE, #8 STUD	0.34	14	EA	5
09137100	TERM.LUG 3/16 CABLE-1/4 POST 2412	0.83	60	EA	50
09215100	33466 TERMINAL, RING TONGUE AMP	0.23	44	EA	10
09260350	TERMINAL, #16-14 #8 SPADE	0.07	10	EA	1
09261570	321527-1 TERMINAL, TEST	1.15	10	EA	12
09401140	ADAPTER, 4 INCH CARLON PLASTIC	2.30	4	EA	9
09409820	BUSHING, 4" PLASTIC, INSULATING	0.75	4	EA	3
09412460	CONDUIT, 3/8 INCH FLEX STEEL SEAL	0.44	1	LF	0
09424920	CONDUIT, 4", PVC, TYPE 40	1.35	60	LF	81
09433970	CONNECTOR, 3/8 INCH STRAIGHT BOX S	0.91	2	EA	2
09467930	LOCKNUT, 4 INCH, GALVANIZED	4.09	4	EA	16
09615550	LAMP, INCANDESCENT, 10V. 25W.	5.21	5	EA	26
09844170	GROUND ROD, 5/8 INCH X 8 FEET	6.51	13	EA	85
09846750	GRND.ROD CONN. 4WAY ONESHOT.	4.93	13	EA	64
09908640	WIRE, #6 AWG.1 COND.COPPER, SOLID	0.11	325	LF	36
09912200	WIRE #6 AWG 2 COND 500'ROLL SHIELD	1.24	2000	LF	2480
09913200	WIRE, #6, 5 COND 500'ROLL SHIELDED	2.05	125	LF	256
09915610	WIRE #6 AWG 1 COND COPPER, STRAN	0.37	200	LF	74
09930550	WIRE #10 AWG 1 COND COPPER, STRAN	0.14	1250	LF	175
09932310	WIRE #10 AWG 1 COND COPPER, TWIST	0.32	370	LF	118
09946070	WIRE #14 7 COND 1000'ROLL SHIELDE	1.07	1000	LF	1070
09946100	WIRE #14, 7 COND 500' ROLL SHIELDE	1.08	125	LF	135
09960090	WIRE #16 AWG 1 COND COPPER, STRAN	0.08	500	LF	40
13060230	TOGGLE, SPRING WING 3/8	0.49	3	EA	1
13552450	SHEET METAL SCREW, #12 X 3/4"	2.00	3	BX	6
13553150	SHEET METAL SCREW #12 X 1"	2.96	2	BX	6

WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

EST START: 01-01-01

PROJ NO: 37638

EST COMP: 12-31-01

A.W.O. NO: 00259

RAILROAD: UPRR CO.

W.O. NO:

LOCATION: SULLIVAN IL TR-81A PANA SUB

B.I. NO: DOEN10

DEPARTMENT: ENGINEERING SERVICES

STATE: IL

VAL SEC: 1117

17061400 PADLOCK,SIGNAL,WITHOUT KEY,AMERIC	12.02	7 EA	84
28033210 CARTON, 39 1/8" L X 23 1/4" W X 17"	3.14	2 EA	6
28033230 CARTON, 47 3/8" L X 39 1/2" W X 18"	5.06	2 EA	10
28041880 PALLET, 48 X 40 INCH 2/WAY	8.09	4 EA	32
35040010 PLASTER OF PARIS, DENTAL GRADE	0.81	50 LB	41
39340220 SIGN, HIGHWAY CROSSING	50.00	2 EA	100
52000920 SURGE PROTECTOR SP19-2A TAB 586	68.05	1 EA	68
52001370 SURGE PROTECTOR SP20-2A TAB 585	69.68	2 EA	139
52003630 EXTENSION CORD - 12'	67.50	2 EA	135
52005690 BOND WIRE, 7 STRANDS	0.42	500 LF	210
52016330 WIRE DUCT, 2X3	9.00	22 EA	198
52016940 WIRE DUCT, 3X3	10.32	3 EA	31
52017510 WIRE DUCT COVER 2"X6"	2.11	22 EA	46
52017620 WIRE DUCT COVER 3"X6"	2.98	3 EA	9
52019530 ENCLOSURE, SHUNT, POLE MOUNTED .24X2	245.01	2 EA	490
52019560 EQUALIZER, H.D. TAB 583	9.15	15 EA	137
52021550 FOUNDATION, 4', STEEL, FOR FLSHR/GAT	230.56	1 EA	231
52025130 HOUSE, INSTRUMENT 4 X 4 X 8' HIGH	3193.72	1 EA	3194
52025240 HOUSE, 6X6, SIGNAL XING	4252.20	1 EA	4252
52027350 CLIP BOARD - FOR SIGNAL PRINTS	6.42	2 EA	13
52027430 STEP BOX	12.73	1 EA	13
52028420 LIGHTNING ARRESTOR, CLR-COMM TAB 3	6.98	9 EA	63
52029780 LIGHTNING ARR,HD TAB 582 W/O BASE	9.83	8 EA	79
52030010 LIGHTNING ARRESTOR CONN.STRIP	4.14	4 EA	17
52039210 RECTIFIER,20EC,12V,TAB575	339.62	2 EA	679
52039390 RECTIFIER, 40EC, 12V, TAB577	475.62	1 EA	476
52040400 RESISTOR, ADJ.0.63 OHM TAB91	24.69	4 EA	99
52040460 RESISTER, ADJ. 5 OHM, TAB 90	12.76	2 EA	26
52042650 POST, MOUNTING, FOR SHUNT HOUSING	8.91	4 EA	36
52045700 SURGE SUPPRESSOR, PRIMARY,#2377-4	9.14	1 EA	9
52068650 TERMINAL, #6 - 5 WIRE - RING TYPE	0.19	30 EA	6
52069100 TERMINAL, #6 WIRE - RING TYPE	0.85	10 EA	9
52070010 TERMINAL,#12-10 WIRE,RING TONGUE	0.08	375 EA	30
52071600 TERMINAL,#20-16 WIRE,RING TONGUE	0.06	300 EA	18
52072280 TERMINAL BLOCK, SIGNAL 2 POST BAK	2.25	31 EA	70
52072510 TERMINAL BLOCK,SIGNAL 3 POST TEST	6.27	3 EA	19
52072740 TERMINAL BLOCK, SIGNAL 12 POST 6	8.60	4 EA	34
52074550 TEST LINK, INSULATED ASSEMBLY TAB	0.67	24 EA	16
52079550 WIRE TAG, PLASTIC - WHITE	0.12	200 EA	24
52079560 MARKING PEN(FOR WHITE TAG)	1.94	2 EA	4
52092250 CRTU. W/MICROBURST TRANSCIEVER.	1685.00	1 EA	1685
52108120 LED FL/GATE ASSY.2 WAY LIGHTS	7215.99	2 EA	14432
52109370 GATE ARM, ADJ.16-32'	217.90	1 EA	218

FORM 30-1
WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PAGE 06 MORE

EST START: 01-01-01
EST COMP: 12-31-01

PROJ NO: 37638
A.W.O. NO: 00259
W.O. NO:
B.I. NO: 00EN10
STATE: IL
VAL SEC: 1117

RAILROAD: UPRR CO.
LOCATION: SULLIVAN IL TR-81A PANA SUB
DEPARTMENT: ENGINEERING SERVICES

52122140 HIGH WIND BRACKET 5"OR 4"	63.99	1 EA	64
52136470 SHEAR PIN, SK-1000-1	5.50	1 EA	6
52138310 GUARD LINER PLATE, 84 INCH DIA	253.46	2 ST	507
52139160 GUARD POST, W6 X 8.5 X 6 FEET	35.94	8 EA	288
52203400 DETECTOR, LIGHT OUT, LCD-1	469.07	1 EA	469
52203960 DUMMY LOAD, 1000 FT. TAB 644	40.00	1 EA	40
52204290 DUMMY LOAD, 2200 FT. TAB 644	40.00	1 EA	40
52205800 GCP111 NO ISLAND #81KB-80110-0B00	14611.58	2 EA	29223
52240000 IPI MODULE-GCP300002 #80211	1069.88	2 EA	2140
52246000 RESISTOR,47,000 (47K) OHM .5 WATT	0.20	4 EA	1
52258590 NBS, TAB 641, 62775-1543	390.98	2 EA	782
52258980 NBS, TAB 640, 62775-8621	486.69	2 EA	973
52262050 SIM.TRK.BURIAL ASSY 80074 TAB605	70.00	1 EA	70
52263600 SURGE ARRESTOR,METER LOOP.	23.89	2 EA	48
52263690 SURGE PANEL - TAB 619	135.31	2 EA	271
52264040 SURGE PANEL - TAB 618	202.66	3 EA	608
52267000 TRANSCIEVER MODULE-#80012-GCP	1560.00	2 EA	3120
52276050 CROSSING ANALYZER, HCA-1	1709.96	1 EA	1710
52726820 RELAY, FLASHER TAB 887	339.09	1 EA	339
52728800 RELAY, B1LC. TAB 911 A62-310	298.94	1 EA	299
52745830 RELAY,NEUTRAL, B1 TAB 884 & 884A	235.01	2 EA	470
52752390 RELAY,B1SR. 3 SEC. TAB 893	421.18	1 EA	421
52773760 RELAY BRACKET, HOLDS 14 B1 RELAYS	207.94	1 EA	208
52776370 RELAY PLUGBOARD,GRS B1,TAB 900	33.02	5 EA	165
52777970 FLAG TERMINAL, FOR GRS, 14-10	0.88	100 EA	88
52778110 FLAG TERMINAL, FOR GRS, 20-16	1.01	100 EA	101
52779280 RELAY TEST TERM,GRS B1 TAB7708864	6.86	5 EA	34
52842220 DIODE JEDEC NUMBER 1N4004	0.03	1 EA	0
52959000 POWER TAP MATERIAL	1000.00	1 EA	1000
52959100 POWER TAP MATERIAL & LABOR	500.00	1 EA	500
53311490 EXTRACTOR FOR "B" TERMINALS P3-308	9.84	1 EA	10
53311510 TEST NUT WRENCH. GRS #P3-320	22.68	1 EA	23
53623340 BATTERY CHOKE-TAB 706	166.71	2 EA	333
53648010 INSULATING CAP & SHIELD ASSY.	2.07	20 EA	41
53903460 EPD 120/240TDFL SURGE PROTECTOR	317.10	1 EA	317
53954500 180429-000 BOOTLEG KIT	85.19	10 EA	852
TOTAL			84,550

-1051-

ଓଡ଼ିଆ ଅନ୍ତର୍ଜାଲ ପରିଷଦ

卷之三

TO VILLA GROVE

CONNECTS TO DRAWING

SECTION

- X-1

TO TWISTED WIRES, "WIS" PER FT.
INSULATED ALL TRACK WIRES 2C-.6 FT.

TRANSMITTER AND RECEIVER LEADS
TO BE SECURED BY AT LEAST 12" IN TRENCH,
LENTHES SHOULD NOT EXCEED MANUFACTURE'S
RECOMMENDATION.

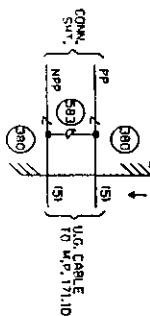
TOP OF FOUNDATION TO BE AT SAME ELEVATION
AS THE SURFACE OF THE TRAVELED WAY & NO
MORE THAN 4' ABOVE THE SURFACE OF THE GROUND.

ALL BURIED WIRES TO BE .15" O.D. FLEX
UNLESS OTHERWISE SPECIFIED, EXCEPT, ALL GROUND
WIRES TO BE .12" O.D. FLEX OR LARGER.

ALL WIRING IN GATE MECHANISM TO BE 10 AWG FLEX.

REFER TO 1ST STANDARD OF RIG BATTERY FOR BURIAL SCAFFOLDING.
DO NOT USE 7 CELLS OF RIG BATTERY IN ONE ESS
REQUIRED TO MAINTAIN MINIMUM LOAD VOLTAGE.

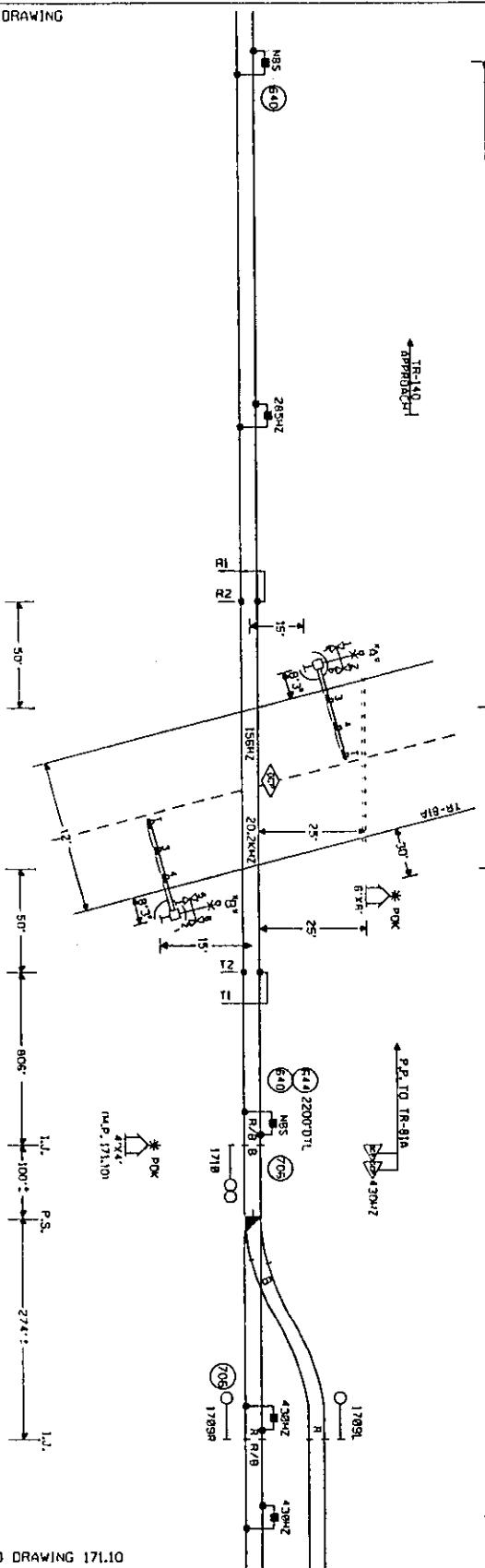
INSTRUMENT HOUSE
—



CONSTRUCTION NOTES:

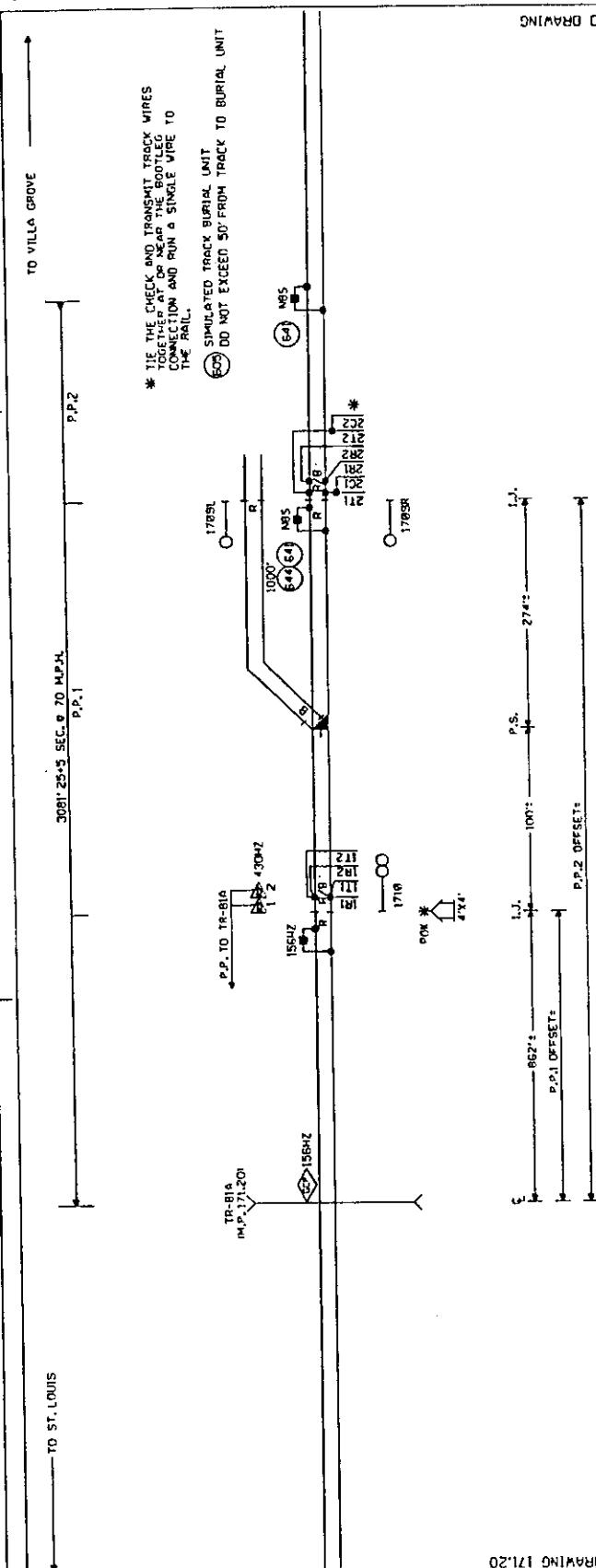
1. TAB 640 MASTS ARE NEW; ALL OTHERS ARE EXISTING.
2. INSTALL NEW REMOTE OCP LOCATION AT M.P. 1710 AND DAK TO THIS CROSSING AS PART OF THIS PROJECT.
3. REMOVE SERIES FEEDING CIRCUIT IN O.S. AND INSTALL TWO SEPARATE R-N CIRCUITS.

CONNECTS TO DRAWING 171.10



MODIFICATION LEVEL		UNION PACIFIC	UNION PACIFIC RAILROAD	DATE DRAFTED
DIA. LAST LEVEL CHART.		DES. DRAW.	VILLA GROVE, ILLINOIS 60	SHEET 1
AST. LEVEL AND P.H.S. TYPE.		DIA. GENR.	ST. LOUIS, MISSOURI	DIA. 17.20
C.R.T. LEVEL OF DESIGNER.		DIA. REP.	C.T.C. CIRCUITS	
DRAWN FROM TYP. V.W.N.		BY: COMMUTERPAK	DESIGNER OR CHIEF ENGR.	DIA. NUMBER S-301
		COMMUTERPAK		

REV. 7-4-00 (ITKBC.1)



CONNECTS TO DRAWING 171.20

NOTE 5

- TWISTED WIRES**
ALL BACK WIRES 2C-.06
INSULATED 1 TWIST PER FT.
TRANSMITTER AND RECEIVED LEADS
TO BE SEPARATED BY AT LEAST 12" IN TRENCH
LENGTHS SHOULD NOT EXCEED MANUFACTURES
RECOMMENDATION.
ALL BUNDLED WIRING TO BE 16 AWG FFLY
UNLESS OTHERWISE SPECIFIED EXCEPT ALL GROUND
WIRE TO BE 16 AWG FFLY OR LARGER.
REFER TO UP STANDARD DWS FOR MATERIALS
GROUNDING.

CABLE TABULATION
CABLE NO. 17C #14 U.G.S.T.

SULLIVAN, ILLINOIS
REMOTE GPS LOCATION
M.P. 171.10
PRATT SURVEYORS

MODIFICATION LEVEL		UNION PACIFIC		UNION PACIFIC RAILROAD		DATE 08-28-00
DA LAST LEVEL CHGD.		DIG. CRASH		VILLA GROVE, ILLINOIS TO		SHEET 1
LAST LEVEL WORK THIS TYP.		CRASH NO?		ST. LOUIS, MISSOURI		DWG 17110
LAST LEVEL BY DESIGNER,		TYP. NO?		C.T.C. CIRCUITS		DESIGN HEDR
CHANGED FROM 1987 V/N		SIGNAL DESIGN		OFFICE OF CHIEF ENGR.		S-301
						

卷之三

Exhibit B-1, page 6

DATE: 2001-03-01

ESTIMATE OF MATERIAL AND FORCE ACCOUNT WORK
BY THE
UNION PACIFIC RAILROAD

DESCRIPTION OF WORK:

INSTALL GRADE CROSSING WARNING DEVICES WITH GATES AND FLASHING LIGHTS AT TR-140 IN SULLIVAN, IL. MP 171.90 ON THE PANA SUB.

SIGNAL PROJECT MANAGER: R.L. JAMES 8-245-2831

RAILROAD TO PERFORM ALL WORK / COST DISTRIBUTED AS FOLLOWS:

SIGNAL - STATE OF ILLINOIS 100%

PID: 37640	AWO: 00260	MP, SUBDIV: 171.90, PANA
SERVICE UNIT: 04	CITY: SULLIVAN	STATE: IL

DESCRIPTION	QTY	UNIT	LABOR	MATERIAL	RECOLL	UPRR	TOTAL
-----	---	-----	-----	-----	-----	-----	-----
ENGINEERING WORK							
ENGINEERING			1135		1135		1135
LABOR ADDITIVE			3589		3589		3589
RECOLL-INSPE			2237		2237		2237
SIG-HWY XNG			1478		1478		1478
TOTAL ENGINEERING			8439		8439		8439
SIGNAL WORK							
BILL PREP			900		900		900
CONTRACT				5281	5281		5281
EARTH/ROCK			2000		2000		2000
EQUIPMENT RENTAL			5000		5000		5000
FOREIGN LINE FREIGHT			1056		1056		1056
LABOR ADDITIVE	13645				13645		13645
MATL STORE EXPENSE			2641		2641		2641
PERSONAL EXPENSES			9975		9975		9975
SALES TAX			3301		3301		3301
SIGNAL	18439		52818		71257		71257
TRANSPORTATION CHARGES			1800		1800		1800
USAGE EQUIPMENT			3360		3360		3360
TOTAL SIGNAL			32984	87232	120216		120216
LABOR/MATERIAL EXPENSE	41423		87232	-----	-----	-----	-----
RECOLLECTIBLE/UPRR EXPENSE				128655		0	-----
ESTIMATED PROJECT COST							128655
EXISTING REUSEABLE MATERIAL CREDIT					0		
SALVAGE NONUSEABLE MATERIAL CREDIT					0		
RECOLLECTIBLE LESS CREDITS							-----

THE ABOVE FIGURES ARE ESTIMATES ONLY AND SUBJECT TO FLUCTUATION. IN THE EVENT OF AN INCREASE OR DECREASE IN THE COST OR QUANTITY OF MATERIAL OR LABOR REQUIRED, UPRR WILL BILL FOR ACTUAL CONSTRUCTION COSTS AT THE CURRENT EFFECTIVE RATE.

WORK ORDER AUTHORIZATION DETAIL ESTIMATED EXPENDITURES

EST START: 01-01

PROJ. NO: 37640

EST COMP: 12-31-01

A.W.O. NO: 00260

RAILROAD: UPRR CO.

W.O. NO:

LOCATION: SULLIVAN IL TR-140 PANA SUB

B.I. NO: 00EN10

DEPARTMENT: ENGINEERING SERVICES

STATE: IL

VAL SEC: 1117

----- STOCK MATERIAL PLAN -----

ITEM NUMBER	ITEM DESCRIPTION	UNIT	DIRECT		
			COST	QTY	UM
02040420	BATTERY,GNB,75A9 OR 50A13	180.00	6	EA	1080
02040660	BATTERY,GNB, 75A23 OR 50A27	318.17	7	EA	2227
09011240	CABLE TIE, NYLON 1 1/8" MAX. DIA	0.06	200	EA	12
09011980	CABLE TIE, NYLON 3 1/2" MAX. DIA	0.22	20	EA	4
09014950	CIRCUIT BREAKER, 120/240V 20A AC	23.29	1	EA	23
09054300	RELAY,TAB 869 KRP11DN12V. SW.HTR.	10.67	1	EA	11
09054360	RELAY, GEN.PURPOSE 120V. TAB 856	9.76	1	EA	10
09057650	SOCKET,P-B 27E122 TAB 836A & 856	2.72	2	EA	5
09065700	TAPE, ELECTRICAL PLASTIC	2.4	2	RL	5
09066900	TERMINAL,SPADE,10-12 WIRE,#8 STUD	0.34	10	EA	3
09137100	TERM.LUG 3/16 CABLE-1/4 POST 2412	0.83	30	EA	25
09215100	33466 TERMINAL, RING TONGUE AMP	0.23	24	EA	6
09260350	TERMINAL,#16-14 #8 SPADE	0.07	10	EA	1
09261570	321527-1 TERMINAL, TEST	1.15	10	EA	12
09401140	ADAPTER, 4 INCH CARLON PLASTIC	2.30	2	EA	5
09409820	BUSHING, 4" PLASTIC,INSULATING	0.75	2	EA	2
09412460	CONDUIT,3/8 INCH FLEX STEEL SEALT	0.44	1	LF	0
09424920	CONDUIT, 4", PVC, TYPE 40	1.35	40	LF	54
09433970	CONNECTOR,3/8 INCH STRAIGHT BOX S	0.91	2	EA	2
09467930	LOCKNUT, 4 INCH, GALVANIZED	4.09	2	EA	8
09615550	LAMP,INCANDESCENT,10V.25W.	5.21	7	EA	36
09844170	GROUND ROD, 5/8 INCH X 8 FEET	6.59	9	EA	59
09846750	GRND.ROD CONN. 4WAY ONESHOT.	4.93	9	EA	44
09908640	WIRE,#6 AWG.1 COND.COPPER,SOLID	0.11	225	LF	25
09912200	WIRE #6 AWG 2 CND 500'ROLL SHIELD	1.24	500	LF	620
09913200	WIRE,#6, 5 COND 500'ROLL SHIELDED	2.05	250	LF	513
09915610	WIRE #6 AWG 1 COND COPPER, STRAN	0.37	150	LF	56
09930550	WIRE #10 AWG 1 COND COPPER, STRAN	0.14	1000	LF	140
09932310	WIRE #10 AWG 1 COND COPPER, TWIST	0.32	170	LF	54
09946100	WIRE #14, 7 CND 500' ROLL SHIELDE	1.08	250	LF	270
09960090	WIRE #16 AWG 1 COND COPPER, STRAN	0.08	250	LF	20
13060230	TOGGLE,SPRING WING 3/8	0.49	3	EA	1
13552450	SHEET METAL SCREW,#12 X 3/4"	2.00	2	BX	4
13553150	SHEET METAL SCREW #12 X 1"	2.96	1	BX	3
17061400	PADLOCK,SIGNAL,WITHOUT KEY,AMERIC	12.02	6	EA	72
28033210	CARTON, 39 1/8"L X 23 1/4"W X 17	3.14	1	EA	3
28033230	CARTON, 47 3/8"L X 39 1/2"W X 18"	5.06	1	EA	5
28041880	PALLET, 48 X 40 INCH 2/WAY	7.97	2	EA	16
35040010	PLASTER OF PARIS, DENTAL GRADE	0.81	25	LB	20
39340220	SIGN, HIGHWAY CROSSING	50.00	2	EA	100
52000920	SURGE PROTECTOR SP19-2A TAB 586	68.07	1	EA	68
52001370	SURGE PROTECTOR SP20-2A TAB 585	69.68	1	EA	70

WORK ORDER AUTHORIZATION - DETAIL ESTIMATED EXPENDITURES

EST START: 01-01-01

PROJ NO: 37640

EST COMP: 12-31-01

A.W.O. NO: 00260

RAILROAD: UPRR CO.

W.O. NO:

LOCATION: SULLIVAN IL TR-140 PANA SUB

B.I. NO: 00EN10

DEPARTMENT: ENGINEERING SERVICES

STATE: IL

VAL SEC: 1117

52003630 EXTENSION CORD - 12'	67.50	1 EA	68
52005690 BOND WIRE, 7 STRANDS	0.42	200 LF	84
52016830 WIRE DUCT, 2X3	9.00	15 EA	135
52016940 WIRE DUCT, 3X3	10.32	2 EA	21
52017510 WIRE DUCT COVER 2"X6"	2.11	15 EA	32
52017620 WIRE DUCT COVER 3"X6"	2.98	2 EA	6
52019530 ENCLOSURE,SHUNT,POLE MOUNTED.24X2	245.01	2 EA	490
52019560 EQUALIZER, H.D. TAB 583	9.15	5 EA	46
52021550 FOUNDATION,4',STEEL,FOR FLSHR/GAT	230.52	2 EA	461
52025240 HOUSE, 6X6, SIGNAL XING	4252.20	1 EA	4252
52027350 CLIP BOARD - FOR SIGNAL PRINTS	6.42	1 EA	6
52027430 STEP BOX	12.64	1 EA	13
52028420 LIGHTNING ARRESTOR,CLR-COMM TAB 3	6.98	8 EA	56
52029780 LIGHTNING ARR,HD TAB 582 W/O BASE	9.83	4 EA	39
52030010 LIGHTNING ARRESTOR CONN STRIP	4.15	2 EA	8
52039210 RECTIFIER,20EC,12V.TAB575	340.80	1 EA	341
52039290 RECTIFIER, 40EC, 12V. TAB577	476.34	1 EA	476
52040400 RESISTOR, ADJ.0.63 OHM TAB91	24.70	4 EA	99
52040460 RESISTER, ADJ. 5 OHM, TAB 90	12.76	1 EA	13
52042650 POST, MOUNTING, FOR SHUNT HOUSING	8.91	4 EA	36
52045700 SURGE SUPPRESSOR, PRIMARY,#2377-4	9.14	1 EA	9
52068650 TERMINAL, #6 - 5 WIRE - RING TYPE	0.19	20 EA	4
52069100 TERMINAL, #6 WIRE - RING TYPE	0.85	10 EA	9
52070010 TERMINAL,#12-10 WIRE,RING TONGUE	0.08	300 EA	24
52071600 TERMINAL,#20-16 WIRE,RING TONGUE	0.06	150 EA	9
52072280 TERMINAL BLOCK, SIGNAL 2 POST BAK	2.25	22 EA	50
52072510 TERMINAL BLOCK,SIGNAL 3 POST TEST	6.27	3 EA	19
52072740 TERMINAL BLOCK, SIGNAL 12 POST 6	8.60	4 EA	34
52074550 TEST LINK, INSULATED ASSEMBLY TAB	0.67	24 EA	16
52079550 WIRE TAG, PLASTIC - WHITE	0.12	100 EA	12
52079560 MARKING PEN(FOR WHITE TAG)	1.94	1 EA	2
52092250 CRTU. W/MICROBURST TRANSCEIVER.	1685.00	1 EA	1685
52108120 LED FL/GATE ASSY.2 WAY LIGHTS	7215.99	2 EA	14432
52109370 GATE ARM, ADJ.16-32'	218.63	2 EA	437
52122140 HIGH WIND BRACKET 5"OR 4"	63.99	2 EA	128
52136470 SHEAR PIN, SK-1000-1	5.50	2 EA	11
52203400 DETECTOR, LIGHT OUT, LOD-1	469.07	1 EA	469
52205800 GCP111 NO ISLAND #81KB-80110-0B00	14678.39	1 EA	14678
52240000 IPI MODULE-GCP3000D2 #80211	1070.65	2 EA	2141
52246000 RESISTOR,47,000 (47K) OHM .5 WATT	0.20	4 EA	1
52263600 SURGE ARRESTOR,METER LOOP.	23.89	1 EA	24
52264040 SURGE PANEL - TAB 618	202.74	1 EA	203
52276050 CROSSING ANALYZER, HCA-1	1709.98	1 EA	1710
52726820 RELAY, FLASHER TAB 887	339.96	1 EA	340
52728800 RELAY, B1LC. TAB 911 A62-310	298.94	1 EA	299
52745830 RELAY,NEUTRAL, B1 TAB 884 & 884A	235.01	2 EA	470
52752390 RELAY,B1SR. 3 SEC. TAB 893	421.18	1 EA	421
52773760 RELAY BRACKET, HOLDS 14 B1 RELAYS	207.94	1 EA	208

WORK ORDER AUTHORIZAT -DETAIL ESTIMATED EXPENDITURES

EST START: 01-01-01

PROJ NO: 37640

EST COMP: 12-31-01

A.W.O. NO: 00260

RAILROAD: UPRR CO.

W.O. NO:

LOCATION: SULLIVAN IL TR-140 PANA SUB

B.I. NO: 00EN10

DEPARTMENT: ENGINEERING SERVICES

STATE: IL

VAL SEC: 1117

52776370 RELAY PLUGBOARD,GRS B1,TAB 900	33.04	5 EA	165
52777970 FLAG TERMINAL, FOR GRS, 14-10	0.88	100 EA	88
52778110 FLAG TERMINAL, FOR GRS, 20-16	1.01	100 EA	101
52779280 RELAY TEST TERM,GRS B1 TAB7708864	6.86	5 EA	34
52842220 DIODE JEDEC NUMBER 1N4004	0.03	1 EA	0
52959000 POWER TAP MATERIAL	1500.00	1 EA	1500
53311490 EXTRACTOR FOR "B"TERMINALS P3-308	9.84	1 EA	10
53311510 TEST NUT WRENCH. GRS #P3-320	22.68	1 EA	23
53648010 INSULATING CAP & SHIELD ASSY.	2.07	30 EA	21
53903460 EPD 120/240TDFL SURGE PROTECTOR	317.05	1 EA	317
53954500 180429-000 BOOTLEG KIT	85.19	4 EA	341
TOTAL			52,821

TO ST. LOUIS

3081 25+5 SEC. @ 70 MPH.

TO VILLA GROVE

3081 25+5 SEC. @ 70 MPH.

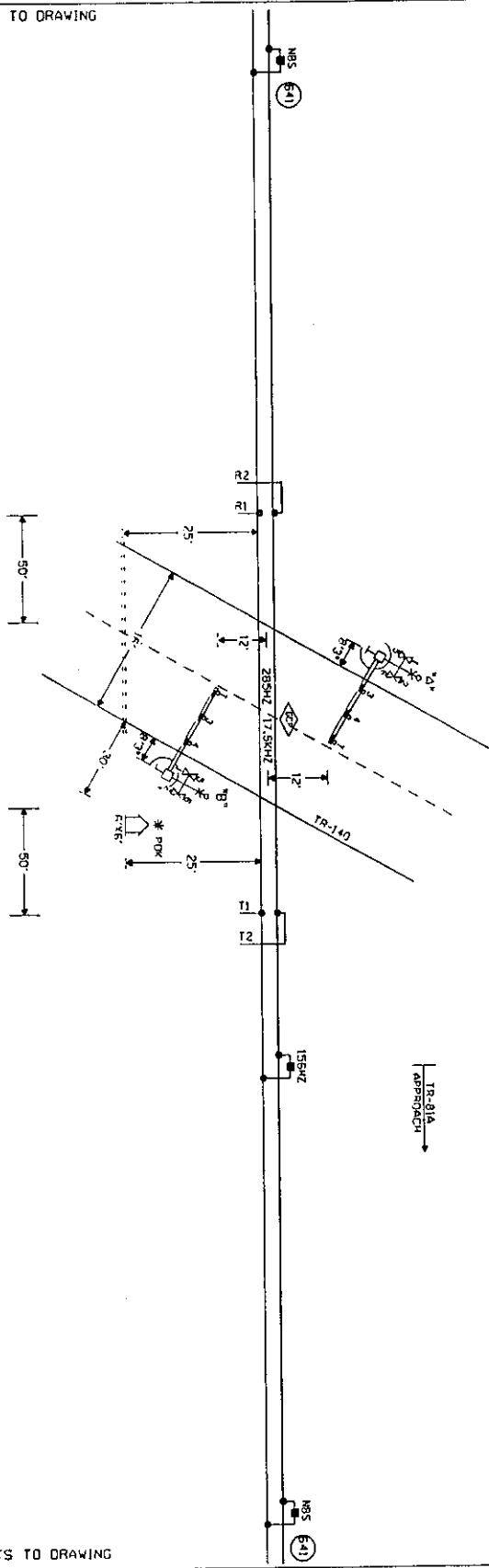
CONNECTS TO DRAWING

NOTES

- ⊗ TWISTED WIRES
INST. ATE 1 TWIST PER FT.
ALL TRACK WIRES 26/6
- TRANSMITTER AND RECEIVER LEADS,
TO BE SUPPORTED BY AN EXCEDED LENGTH
RECOMMENDED, NOT EXCEDED MANUFACTURES
TOP OF FOUNDATION TO BE AT SAME ELEVATION
AS THE SURFACE OF THE TRAVELED WAY & NO
MORE THAN 4' ABOVE THE SURFACE OF THE GROUND.
- ALL BUNDLED WIRING TO BE "16 AWG FLEX"
UNLESS OTHERWISE SPECIFIED EXCEPT ALL GROUND
WIRE TO BE "16 AWG FLEX OR LARGER."
- ALL WIRING IN GATE MECHANISM TO BE "10 AWG FLEX".
REFER TO UP STANDARD Dwg FOR BUNDLING DIMINISHING.
DO NOT USE 7 CELLS OF B12 BATTERY UNLESS
REQUIRED TO MAINTAIN MINIMUM LOAD VOLTAGE.
- ALL LIGHTS TO BE 12 ROUNDELS.
- ***** 4" X 20 CONDUIT
- LIGHTS
LED LIGHTS

C
CRTU MICROSUBST
P-34 ROAD GUARD RAIL

S ← → N



CONSTRUCTION NOTES:

¹ MAG 641 MASS ARE NEW. ALL OTHERS
ARE EXISTING.
2. ISOLATION UNITS EXIST IN EACH END OF
TRACK CIRCUIT.

CONNECTS TO DRAWING

SULLIVAN, ILLINOIS
TR-140
M.P. 171.90
PAKA SUBDIVISION
D.O. 1, 157/2565

MODIFICATION LEVEL		UNION PACIFIC		UNION PACIFIC RAILROAD	
DA	LAST LEVEL CHG'D	DA	DA	DA	DA
DA	LAST LEVEL CHG'D	DA	DA	DA	DA
DA	LAST LEVEL MOD THIS YR.	DA	DA	DA	DA
DA	LAST LEVEL BY DESIGNER	DA	DA	DA	DA
DA	CHANGED FROM TRP-7 YR	DA	DA	DA	DA
STORM DESIGN		OFFICE OR OWNER ENCL		DRAWING NUMBER	

(REV. 7-9-00) UTR(BGJ)